

FLS-YK Farm, Mecklenburg County -- \$143,054 for a 32 kW capacity photovoltaic solar system to be installed at both the Beatties Ford and Hickory Branch Libraries in Charlotte. The system will include: solar panels, racking and mounting, wiring and monitoring system. Total cost of the project is \$572,228, and it will generate 42,000 kWh annually.

Firstfloor K-12 Solutions, Cumberland County -- \$200,000 for a photovoltaic solar project placed in Fayetteville at the New Century International Elementary School and Public Library & Information Center. Firstfloor is a company specifically designed to provide turnkey development solutions to educational institutions. The school complex is designed as a LEED Platinum building and will serve 800 students. This building is anticipated to approach net zero energy consumption when the energy generation of the photovoltaic solar system is considered. Energy data will be real-time and access will be available via the Internet. Total cost of the project is \$4.2 million, and it will generate 820,000 kWh annually.

Frontier Spinning Mills, Lee County -- \$200,000 for a photovoltaic solar project to be placed on Frontier Spinning Mills rooftop at the distribution and manufacturing facility in Sanford. Frontier Spinning Mills is a large textile production company. In addition to the installation of the solar panels, major elements of this project include furnishing and installing wiring and system data monitoring equipment capable of tracking five years of real-time data via the Internet. Total cost of the project is \$7.2 million, and it will generate 1.5 million kWh annually.

Gaston County -- \$200,000 to complete a landfill gas-to-energy project to harvest methane from the Gaston County Solid Waste Landfill in Dallas. The Gaston County Public Works Department Solid Waste Division will lead the project, which will support equipment necessary for landfill gas transport, conditioning, and compression, preparing the gas for use in two engines - generator sets used to create electricity. The landfill gas transport and conditioning equipment is part of a larger county-funded project that also includes a power generation facility. Total cost of the project is \$446,200, and it will generate 26.35 million kWh annually.

McDowell County -- \$66,749 for a solar thermal system at the Senior Center and the Law Enforcement Center in Marion, supplying hot water. The showers, laundry and the dining facilities at the jail require large volumes of hot water year-round. McDowell County operates its Meals on Wheels program out of its Senior Center, which also requires large amounts of hot water. The Law Enforcement Center will get 50 solar thermal panels and the Senior Center will get six panels. The solar heating system includes solar panels, pumps, tanks, controls, wiring, piping, and insulation. A Web-based monitoring service will provide access to energy production data on a daily, weekly and monthly basis. Total cost of the project is \$333,747, and it will generate 572,000,000 BTU annually.